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Hear Papers

Members of the Kingston reanch of the Engineering Institie of Canada and students in the Faculty of Applied Science at ueen's University gave further emonstration of the co-operation stween these two groups when ney met Tuesday evening at a pint meeting.

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icult or costly to extract. C. E. Leon, another Science funior of Queen's, won second prize of \$10-worth of books for nis treatise on "Fire Protection n a Small Factory." K. Rothshild, Science sophomore, also was rewarded for an interesting outtime of "Industrial and Economic Aspects of the Plastics," a timely talk for all engineers.

Honorable mention was given to W. R. Meredith and J. A. Brown. Judges of the siudent presentations were: Prof. A. Jackson, MEIC, Dr. S. D. Lash, MEIC, and Lt.-Col. LeRoy F. Grant who acted as chairman of the joint meeting.

W. M.E.I.C. - - Secretar

R. A. Low, M.E.I.C. - - Secretary-Treasurer C. E. CRAIG, S.E.I.C. - Branch News Editor

The programme committee of the Kingston Branch under the chairmanship of R. J. Carter, continued, during February and March, its presentation of interesting meetings.

February 8th, C. J. Warrington, development manager of the Nylon Division of C.I.L. Kingston, delivered a most informative paper entitled Nylon in War and Peace. The speaker outlined in most interesting detail the properties of this new material and demonstrated by means of actual samples, the varied uses of nylon. It is hoped that the paper will appear in an early issue of the *Journal*.

February 22, in the New Art Building, Queen's University, the Kingston Branch further exemplified its efforts to assist the young engineer. Engineering students at the university were invited to present papers in open competition for student prizes and the results were so encouraging that meetings of this nature will most likely become an annual feature of the branch.

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Science Awards

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Mr. Leon, in his paper on Fire Protection in a Small Factory pointed out the many losses sustained by a concern due to fire, and he then considered: plant organization for fire drill, fire prevention and finally fire protection. The speaker emphasized the need for fire drill to acquaint workers with the use of fire equipment and to prevent panic in the event of a fire. With respect to fire prevention the paper outlined the routine inspection and housekeeping neces-



hed Twice a Week by the Alma Mater Society of Queen's University

KINGSTON, ONTARIO, FRIDAY, FEBRUARY 25, 1944

Institute Awards Given For Papers By Sciencemen

A. R. Bader's Dissertation On Rare Metals Wins Top Prize

were: J. A. Brown of Sc. '44 who and in a students' Technical Paper Mr. Meredith's paper dealt with and W. R. Meredith of Sc. Erected by Co-operative Efforts a Post-war Swimming Pool to be read a paper on A Proposal for Factory. The two other speakers was Fire Protection in a Small Plastics, and C. Leon of Sc. '45 Sc. divided between K Rothschild of iliar Metals of Engineering Imprize for his paper on Less Ham-R. Bader of Sc. '45 received first gineering Institute of Canada, Competition sponsored by the Enston Hall five the Manufacture of Airplane Pro-The subject of Mr. Leon's paper bortance. The second prize was Last Tuesday evening in King-'46, who spoke on Industrial Economic SCIENCE AWARDS students competed Aspects of the \$45. A

(Continued on page 4)





KINGSTON BRANCH

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material for construction in neat transfer systems. Besides its ability to withstand high internal pressure and chemical reaction, the metal has a high melting point, and a low vapor pressure. It is, however, found in relatively few and minor deposits, in which respect it differs from vanadium and beryllium. In conclusion, the speaker mentioned that any difficulties in the extraction of these metals will be overcome by improved methods in the future.

Mr. Leon, in his paper on *Fire Protection in a Small Factory* pointed out the many losses sustained by a concern due to fire, and he then considered: plant organization for fire drill, fire prevention and finally fire protection. The speaker emphasized the need for fire drill to acquaint workers with the use of fire equipment and to prevent panic in the event of a fire. With respect to fire prevention the paper outlined the routine inspection and housekeeping necessary to remove fire hazards and to make a factory safe from fire. Under fire protection Mr. Leon discussed construction materials, installation of various types of sprinkler systems, and finally classes of extinguishers and their respective uses.

In his discussion of plastics, Mr. Rothschild remarked on the outstanding progress made by plastics in this war. Their electrical, thermal, optical and mechanical properties have been used to advantage in many industries. The speaker mentioned that essential properties not found in one type are usually found in another and that plastics lend themselves more effectively to moulding than any other material. In dealing with the economic aspect of the use of plastics, Mr. Rothschild pointed out that in the synthesis of plastics many natural materials may be used, materials which previously were frequently wasted. He added that plastic manufacturers may in the future use surplus farm outputsa factor of immense importance to Canada.

Mr. Brown discussed the possibility of using co-operative efforts to construct a swimming pool or other community enterprise. He pointed out that it would be preferable to have a service club sponsor the undertaking, and that it is essential to gain publicity through the press The speaker discussed in detail the steps necessary to complete such an undertaking and reminded the audience that the success of the project depends entirely on the co-operation of the citizens.

Mr. Meredith discussed the manufacture of airplane propellors from aluminum, and dealt with it under blade forging, finishing, attaching to the hub, and balancing. His lec-

in a students' Technical Paper Competition sponsored by the Engineering Institute of Canada. A. R. Bader of Sc. '45 received first prize for his paper on Less Familiar Metals of Engineering Importance. The second prize was divided between K Rothschild of Sc. '46, who spoke on Industrial and Economic Aspects of the Plastics, and C. Leon of Sc. '45.' The subject of Mr. Leon's paper was Fire Protection in a Small Factory. The two other speakers were: J. A. Brown of Sc. '44 who read a paper on A Proposal for a Post-war Swimming Pool to be Erected by Co-operative Efforts, and W. R. Meredith of Sc. '45. Mr. Meredith's paper dealt with the Manufacture of Airplane Pro-

SCIENCE AWARDS (Continued on page 4)





Sciencemen Hear Talk On Petroleum

afternoon. by A. R. Bader, of Sc. the subject of a paper delivered neers' Club held last Tuesday meeting of the Chemical Engi-The origin of petroleum was Mr. Bader stated that although '45, at a

had long been discredited. gestion of inorganic synthesis only two remained, since the sug-LUIS gested regarding the origin there had been three theories sugnow-precious commodity,

by the alteration of vegetable was proof that it had been formed of chlorophyll in crude petroleum SIS Triebs claimed that the presence Engler favored the metamorphoorganic origin of petroleum, the theories stressed the essentially point of difference being that ooth the Engler and the Triebs Mr. Bader went on to say that of animal remains, while (Continued from page 1)

today and that possibly the tru that both theories were accept matter. Mr. Bader concluded by sayir

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KINGSTON BRANCH

the Branch: During the year the following meetings were held by

- Jan. 11-Evolution of the Steam Engine, by Prof. D. M. Jemmett, head of Electrical Engineering Dept.
- Queen's University.
 Jan. 26—Plastics, by V. T. Griffiths, plastics engineer, Canadian General Electric Co. Ltd.
 Feb. 8—Nylon in War and Peace, by C. J. Warrington, development manager, Nylon Division, Canadian
- Feb. 22-Industries Limited. -Student Night, Engineering Uses of Some Un--Student Night, Bay A. R. Bader (1st prize); Fire Protection in a Small Factory, by C. E. Leon (2nd prize); Industrial and Economic Aspects of Plastics, by K. Rothchild (2nd prize).
- Mar. Plastics, by n. nounomic (concerned for fingston, a 7-Town Planning and the Future of Kingston, a 7-Town Planning moding. A. S. Mathers, Toronto;
- symposium; public meeting, A. S. Mathers, Toror W. Cecil Cole, Kingston; Prof. R. A. Low, Kingston

Apr.

- 25-Annual Meeting, with films: Tested by Under-writers Laboratories, The Failure of the Tacoma Narrows Bridge, and Wings Over the North. Dinner meeting, Cataraqui Golf Club, Kingston.
- Sept. 16--Dinner meeting, Cataraqui Golf Club, Kungston. Visiting members of Council and their wives entery the Branch.
- Oct. 18-The Magie of Electric Welding, by P. H. Take, welding engineer, Canadian General Electric Co.
- Nov. Nov. 15-1—Brig. J. Melville, M.C., Pensions Commission of Our Armed Forces. A public sion: Plans for the Rehabilitation , E.D., Chairman, плаанты The Canadian
- The Engineering History of Shipshaw, by Me-Neely DuBose, vice-president, Aluminum Company
- of Canada. An open meeting, -Student Night, Alloys, the Backbone of Chemical -Student Night, by A. Bader (1st prize); Concrete Inspection, by R. McKnight (2nd prize).

Dec

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Science Men Hear Papers

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Science Awards



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